

Table ENG-2. - Construction Materials

City of Richmond, Virginia

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation.

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1B: Abell	85	Fair Low content of organic matter Too acid	0.13 0.54	Fair Depth to saturated zone	0.98	Fair Depth to saturated zone Too acid	0.98 0.98
2B: Appling	85	Poor Too clayey Low content of organic matter Too acid	0.00 0.13 0.32	Good		Poor Too Clayey Too acid	0.00 0.88
3B: Appling	85	Poor Too clayey Low content of organic matter Too acid	0.00 0.13 0.32	Good		Poor Too Clayey Too acid	0.00 0.88
3C: Appling	85	Poor Too clayey Low content of organic matter Too acid	0.00 0.13 0.32	Good		Poor Too Clayey Too acid Slope	0.00 0.88 0.96
3D: Appling	85	Poor Too clayey Low content of organic matter Too acid	0.00 0.13 0.32	Fair Slope	0.98	Poor Too Clayey Slope Too acid	0.00 0.00 0.88
4C: Appling	45	Poor Too clayey Low content of organic matter Too acid	0.00 0.13 0.32	Good		Poor Too Clayey Too acid Slope	0.00 0.88 0.96
Wedowee	40	Poor Too clayey Low content of organic matter Too acid	0.00 0.13 0.50	Good		Poor Too Clayey Too acid Slope	0.00 0.60 0.96

4D:

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
4D:							
Appling	45	Poor		Fair		Poor	
		Too clayey	0.00	Slope	0.98	Too Clayey	0.00
		Low content of organic matter	0.13			Slope	0.00
		Too acid	0.32			Too acid	0.88
Wedowee	40	Poor		Fair		Poor	
		Too clayey	0.00	Slope	0.98	Too Clayey	0.00
		Low content of organic matter	0.13			Slope	0.00
		Too acid	0.50			Too acid	0.60
5A:							
Atlee	85	Poor		Poor		Fair	
		Droughty	0.00	Depth to cemented pan	0.00	Depth to cemented pan	0.03
		Depth to cemented pan	0.03	Low strength	0.00	Depth to saturated zone	0.53
		Too acid	0.12	Depth to saturated zone	0.53	Too acid	0.76
6A:							
Augusta	85	Fair		Fair		Fair	
		Low content of organic matter	0.13	Depth to saturated zone	0.14	Depth to saturated zone	0.14
		Too acid	0.54			Too acid	0.98
7B:							
Bourne	85	Poor		Poor		Fair	
		Droughty	0.00	Depth to cemented pan	0.00	Hard to reclaim	0.03
		Depth to cemented pan	0.03	Depth to saturated zone	0.53	Depth to cemented pan	0.03
		Too acid	0.12			Depth to saturated zone	0.53
7C:							
Bourne	85	Poor		Poor		Fair	
		Droughty	0.00	Depth to cemented pan	0.00	Hard to reclaim	0.03
		Depth to cemented pan	0.03	Depth to saturated zone	0.53	Depth to cemented pan	0.03
		Too acid	0.12			Depth to saturated zone	0.53
8C:							
Cecil	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.88
		Too acid	0.32			Slope	0.96
8D:							

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
8D:							
Cecil	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13	Slope	0.98	Slope	0.00
		Too acid	0.32			Too acid	0.88
9A:							
Chastain	85	Fair		Poor		Poor	
		Too clayey	0.08	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too acid	0.54			Too Clayey	0.08
		Water erosion	0.99			Too acid	0.98
Nawney	6	Not Rated		Not Rated		Not Rated	
Johnston	4	Not Rated		Not Rated		Not Rated	
10A:							
Chewacla	85	Fair		Poor		Poor	
		Low content of organic matter	0.13	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too acid	0.68			Rock fragments	0.88
Chastain	6	Not Rated		Not Rated		Not Rated	
Johnston	4	Not Rated		Not Rated		Not Rated	
11B:							
Colfax	85	Fair		Poor		Fair	
		Droughty	0.04	Depth to cemented pan	0.00	Depth to cemented pan	0.10
		Depth to cemented pan	0.10			Too acid	0.60
		Too acid	0.12				
Worsham	3	Not Rated		Not Rated		Not Rated	
12C:							
Colfax	85	Fair		Poor		Fair	
		Droughty	0.04	Depth to cemented pan	0.00	Depth to cemented pan	0.10
		Depth to cemented pan	0.10			Too acid	0.60
		Too acid	0.12			Slope	0.96
Worsham	3	Not Rated		Not Rated		Not Rated	
13A:							

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
13A:							
Dogue	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Too acid	0.12	Depth to saturated zone	0.76	Too acid	0.60
		Low content of organic matter	0.13	Shrink-swell	0.99	Depth to saturated zone	0.76
14A:							
Dunbar	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13	Depth to saturated zone	0.29	Depth to saturated zone	0.29
		Too acid	0.50	Shrink-swell	0.96	Too acid	0.88
Pouncey	3	Not Rated		Not Rated		Not Rated	
15B:							
Durham	45	Fair		Good		Fair	
		Low content of organic matter	0.13			Too acid	0.98
		Too acid	0.32			Too sandy	0.99
		Too sandy	0.99				
Bourne	40	Poor		Poor		Fair	
		Droughty	0.00	Depth to cemented pan	0.00	Hard to reclaim	0.03
		Depth to cemented pan	0.03	Depth to saturated zone	0.53	Depth to cemented pan	0.03
		Too acid	0.12			Depth to saturated zone	0.53
16B:							
Edgehill	85	Poor		Fair		Poor	
		Too clayey	0.00	Shrink-swell	0.94	Rock fragments	0.00
		Low content of organic matter	0.13			Too Clayey	0.00
		Too acid	0.32			Hard to reclaim	0.00
16C:							
Edgehill	85	Poor		Fair		Poor	
		Too clayey	0.00	Shrink-swell	0.94	Rock fragments	0.00
		Low content of organic matter	0.13			Too Clayey	0.00
		Too acid	0.32			Hard to reclaim	0.00
16D:							
Edgehill	85	Poor		Fair		Poor	
		Too clayey	0.00	Shrink-swell	0.94	Rock fragments	0.00
		Low content of organic matter	0.13	Slope	0.98	Too Clayey	0.00
		Too acid	0.32			Slope	0.00

16E:

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
16E:							
Edgehill	85	Poor		Poor		Poor	
		Too clayey	0.00	Slope	0.00	Slope	0.00
		Low content of organic matter	0.13	Shrink-swell	0.94	Rock fragments	0.00
		Too acid	0.32			Too Clayey	0.00
17B:							
Faceville	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.98
		Too acid	0.50				
17C:							
Faceville	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Slope	0.96
		Too acid	0.50			Too acid	0.98
17D:							
Faceville	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13	Slope	0.98	Slope	0.00
		Too acid	0.50			Too acid	0.98
18B:							
Faceville	50	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.98
		Too acid	0.50				
Gritney	35	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Too acid	0.08	Depth to saturated zone	0.14	Depth to saturated zone	0.14
		Low content of organic matter	0.13	Shrink-swell	0.94	Too acid	0.50
18C:							
Faceville	50	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Slope	0.96
		Too acid	0.50			Too acid	0.98

Table ENG-2. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
18C:							
Gritney	35	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Too acid	0.08	Depth to saturated zone	0.14	Depth to saturated zone	0.14
		Low content of organic matter	0.13	Shrink-swell	0.94	Too acid	0.50
19C:							
Grover	85	Fair		Good		Fair	
		Low content of organic matter	0.13			Slope	0.96
		Too acid	0.54			Too acid	0.98
19D:							
Grover	85	Fair		Fair		Poor	
		Low content of organic matter	0.13	Slope	0.98	Slope	0.00
		Too acid	0.54			Too acid	0.98
19E:							
Grover	85	Fair		Poor		Poor	
		Low content of organic matter	0.13	Slope	0.00	Slope	0.00
		Too acid	0.54			Too acid	0.98
20C:							
Grover	50	Fair		Good		Fair	
		Low content of organic matter	0.13			Slope	0.96
		Too acid	0.54			Too acid	0.98
Wateree	30	Poor		Poor		Fair	
		Droughty	0.00	Depth to bedrock	0.00	Depth to bedrock	0.03
		Depth to bedrock	0.03			Slope	0.96
		Low content of organic matter	0.13			Too acid	0.98
21A:							
Johnston	85	Fair		Poor		Poor	
		Too acid	0.50	Depth to saturated zone	0.00	Depth to saturated zone	0.00
						Too acid	0.88
Chastain	5	Not Rated		Not Rated		Not Rated	
Nawney	4	Not Rated		Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated		Not Rated	

22B:

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
22B:							
Kempsville	85	Fair		Good		Fair	
		Too acid	0.54			Too acid	0.98
		Water erosion	0.68				
		Low content of organic matter	0.88				
23B:							
Kempsville	45	Fair		Fair		Fair	
		Low content of organic matter	0.13	Low strength	0.22	Too acid	0.98
		Too acid	0.54				
Bourne	40	Poor		Poor		Fair	
		Droughty	0.00	Depth to cemented pan	0.00	Hard to reclaim	0.03
		Depth to cemented pan	0.03	Depth to saturated zone	0.53	Depth to cemented pan	0.03
		Too acid	0.12			Depth to saturated zone	0.53
24B:							
Masada	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.88
		Too acid	0.32				
24C:							
Masada	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.88
		Too acid	0.32			Slope	0.96
25B:							
Masada	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.88
		Too acid	0.32				
25C:							
Masada	85	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.88
		Too acid	0.32			Slope	0.96
26A:							

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
26A:							
Nawney	75	Fair		Poor		Poor	
		Too acid	0.12	Depth to saturated zone	0.00	Depth to saturated zone	0.00
				Low strength	0.22	Too acid	0.60
				Shrink-swell	0.95		
Chastain	6	Not Rated		Not Rated		Not Rated	
Johnston	5	Not Rated		Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated		Not Rated	
27B:							
Norfolk	85	Fair		Good		Fair	
		Too acid	0.12			Too acid	0.60
		Low content of organic matter	0.13				
28B:							
Orangeburg	50	Fair		Poor		Fair	
		Low content of organic matter	0.13	Low strength	0.00	Too acid	0.98
		Too acid	0.32				
Faceville	35	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Too acid	0.98
		Too acid	0.50				
28C:							
Orangeburg	50	Fair		Poor		Fair	
		Low content of organic matter	0.13	Low strength	0.00	Slope	0.96
		Too acid	0.32			Too acid	0.98
Faceville	35	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13			Slope	0.96
		Too acid	0.50			Too acid	0.98
29B:							
Pouncey	85	Poor		Poor		Poor	
		Wind erosion	0.00	Depth to bedrock	0.00	Depth to saturated zone	0.00
		Droughty	0.00	Depth to saturated zone	0.00	Depth to bedrock	0.54
		Too acid	0.50	Shrink-swell	0.99	Too acid	0.88
Worsham	3	Not Rated		Not Rated		Not Rated	

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
30A:							
Riverview	85	Fair		Good		Fair	
		Too acid	0.54			Too acid	0.98
		Low content of organic matter	0.88				
		Water erosion	0.90				
Chewacla	3	Not Rated		Not Rated		Not Rated	
31A:							
Roanoke	85	Poor		Poor		Poor	
		Low content of organic matter	0.00	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Too acid	0.50	Shrink-swell	0.87	Too acid	0.60
32A:							
Roanoke	40	Poor		Poor		Poor	
		Low content of organic matter	0.00	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too clayey	0.00	Low strength	0.00	Too Clayey	0.00
		Too acid	0.50	Shrink-swell	0.87	Too acid	0.60
Chewacla	35	Fair		Fair		Fair	
		Too acid	0.68	Depth to saturated zone	0.50	Depth to saturated zone	0.50
		Water erosion	0.99				
33B:							
Slagle	85	Fair		Fair		Fair	
		Too acid	0.12	Depth to saturated zone	0.76	Too acid	0.60
		Low content of organic matter	0.13			Depth to saturated zone	0.76
34B:							
Tetotum	85	Fair		Fair		Fair	
		Too acid	0.12	Depth to saturated zone	0.53	Depth to saturated zone	0.53
		Low content of organic matter	0.13			Too acid	0.60
		Water erosion	0.99				
35A:							
Toccoa	85	Fair		Good		Good	
		Low content of organic matter	0.13				
		Too acid	0.84				
36A:							
Tomotley	85	Fair		Poor		Poor	
		Too acid	0.12	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Low content of organic matter	0.88			Too acid	0.60

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
37B:							
Turbeville	85	Fair		Good		Fair	
		Too acid	0.32			Too Clayey	0.63
		Too clayey	0.88			Too acid	0.88
		Low content of organic matter	0.88				
37C:							
Turbeville	85	Fair		Good		Fair	
		Too acid	0.32			Too Clayey	0.63
		Too clayey	0.88			Too acid	0.88
		Low content of organic matter	0.88			Slope	0.96
38B:							
Turbeville	85	Fair		Good		Fair	
		Too acid	0.32			Too Clayey	0.63
		Too clayey	0.88			Too acid	0.88
		Low content of organic matter	0.88				
38C:							
Turbeville	85	Fair		Good		Fair	
		Too acid	0.32			Too Clayey	0.63
		Too clayey	0.88			Too acid	0.88
		Low content of organic matter	0.88			Slope	0.96
39:							
Udorthents	85	Not Rated		Not Rated		Not Rated	
40:							
Udorthents	45	Not Rated		Not Rated		Not Rated	
Dumps	40	Not Rated		Not Rated		Not Rated	
41:							
Urban land	85	Not Rated		Not Rated		Not Rated	
42A:							
Varina	85	Poor		Poor		Poor	
		Wind erosion	0.00	Low strength	0.00	Too Clayey	0.00
		Too clayey	0.00			Too acid	0.88
		Low content of organic matter	0.13				
43C:							

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
43C:							
Wateree	85	Poor		Poor		Fair	
		Droughty	0.00	Depth to bedrock	0.00	Depth to bedrock	0.03
		Depth to bedrock	0.03			Too acid	0.98
		Low content of organic matter	0.13				
43D:							
Wateree	85	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Slope	0.00
		Depth to bedrock	0.03	Slope	0.98	Depth to bedrock	0.03
		Low content of organic matter	0.13			Too acid	0.98
44E:							
Wateree	55	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Slope	0.00
		Depth to bedrock	0.03	Slope	0.00	Depth to bedrock	0.03
		Low content of organic matter	0.13			Too acid	0.98
Appling	45	Poor		Poor		Poor	
		Too clayey	0.00	Slope	0.00	Slope	0.00
		Low content of organic matter	0.13			Too Clayey	0.00
		Too acid	0.32			Too acid	0.88
45F:							
Wateree	55	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Slope	0.00
		Depth to bedrock	0.03	Slope	0.00	Depth to bedrock	0.03
		Low content of organic matter	0.13			Too acid	0.98
Appling	35	Poor		Poor		Poor	
		Too clayey	0.00	Slope	0.00	Slope	0.00
		Low content of organic matter	0.13			Too Clayey	0.00
		Too acid	0.32			Too acid	0.88
Rock outcrop	10	Not Rated		Not Rated		Not Rated	
46E:							
Wedowee	85	Poor		Poor		Poor	
		Too clayey	0.00	Slope	0.00	Slope	0.00
		Low content of organic matter	0.13			Too Clayey	0.00
		Too acid	0.50			Too acid	0.60

47A:

Table ENG-2. - Construction Materials - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
47A:							
Worsham	85	Poor		Poor		Poor	
		Too clayey	0.00	Depth to saturated	0.00	Depth to saturated	0.00
		Low content of organic matter	0.13	zone		zone	
		Too acid	0.32	Low strength	0.00	Too Clayey	0.00
				Shrink-swell	0.91	Too acid	0.88
Pouncey	3	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	